clarion

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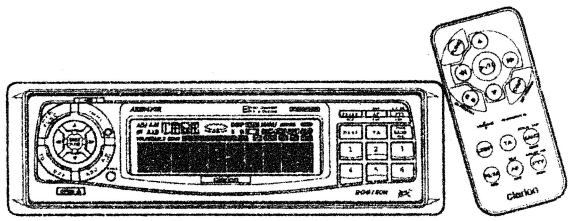
Service Manual



ARX9470R

RDS-EON / FM-MPX / MW / LW
Radio Cassette Combination
with CD Changer Control

Model **ARX9470R**
(PE-1612E-A:Black panel)

Model **ARX9470RW**
(PE-1612E-B:Grained panel)

■SPECIFICATIONS

Radio section

Tuning system: PLL Frequency synthesizer system
Receive range: FM 87.5MHz to 108.0MHz(0.05MHz steps)
MW 531kHz to 1,602kHz(9kHz steps)
LW 153kHz to 279kHz(3kHz steps)

Tape section

Casset type: Compact audio cassette
Wow and flutter: 0.06%(WRMS)
Frequency Response(Metal):
20Hz to 20kHz
Signal to Noise Retio(Metal):
58dB(DOLBY NR OFF)
67dB(DOLBY B NR ON)
74dB(DOLBY C NR ON)

General

Power supply voltage:
DC14.4V(10.8V to 15.6V allowable)
negative ground
Power Consumption:
Less than 3A
Auto Antenna Rated Current:
500mA or less
Dimensions(mm):
Main unit: 178(W)×50(H)×155(D)
Remote control unit:
40(W)×6.5(H)×86(D)
Weight:
Main unit: 1.6kg
Remote control unit:
20g(including battery)

※ Specification and design are subject to change without notice for further improvement.
※ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
※ Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

■COMPONENTS

PE-1612E-A / PE-1612E-B

Main unit	----------	1
Remote controller	RCB-114-300	1
Battery(CR2025BC)	----------	1
Battery cover	653-0299-01	1
Universal mounting bracket	300-9035-01	1
DCP case	335-5331-00	1
Outer escutcheon		
(ARX9470R)	940-7781-03	1
(ARX9470RW)	940-7781-02	1
Parts bag	----------	
Hook plate	330-8216-01	2
Lead holder	335-0833-01	1
Spacer	345-3653-01	1
Screw	716-0726-01	1

■NOTES

1. The DCP can easily be damaged by shocks.After removing it,be careful not to drop it or subject it to strong shocks.
2. The connector connecting the main unit and the DCP is an extremely important part.Be careful not to damage it by pressing on it with fingernails,screwdriver,etc.

■ To engineers in charge of repair or inspection of our products.

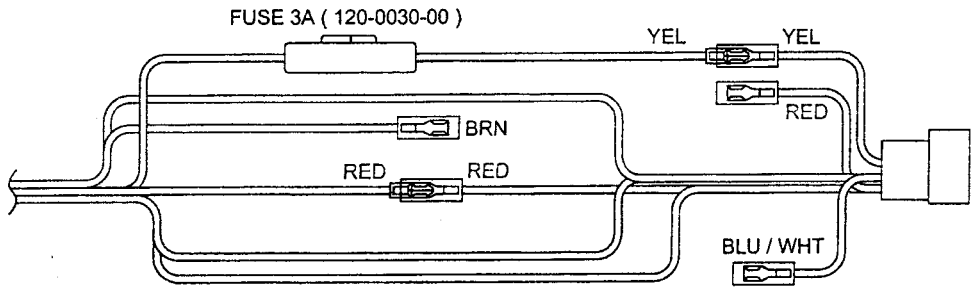
Before repair or inspection,make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage.Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable.The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction,use of insulation tubes,bonding,gaps to PWB,etc,is involved.The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts.Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair,the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws,parts and wires are put back securely in their original position after repair.Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off.If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.If extensive damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance.Always replace them with new ones.(The chip parts include resistors,capacitors,diodes,transistors,etc).The negative pole of tantalum capacitors is highly susceptible to heat,so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron,make sure that the iron tip temperature is around 270℃.Take care not to apply the iron tip repeatedly(more than three times)to the same patterns.Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement.Recheck all work before you apply power to the unit.

■ WIRE CONNECTIONS

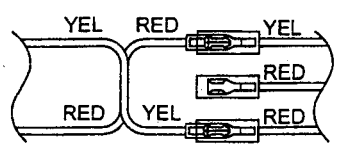
※ For settings,refer to the "Installation/Wire Connection Guide".

Initial setting

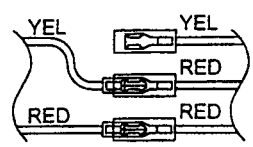


For VW and Audi Vehicles

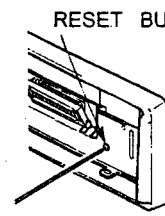
For models 1992 and later



For models up to 1991



■TROUBLESHOOTING

Problem	Cause	Solution
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage.
	Incorrect wiring.	Wire properly.
Sound quality is poor.	Playback head is dirty.	Use a cleaning tape,etc.,to clean the head.
	DOLBY NR button is not pressed.	When listening to a tape recorded with Dolby NR,press the DOLBY NR button and select B NR or C NR.
Nothing happens when buttons are pressed. Display is not accurate.	Microprocessor has malfunctioned due to noise,etc.	Turn off the power,then press the DCP release button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
	DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
DSP or equalizer does not operate.	Micoprocessor has malfunctioned due to noise,etc.	Press Direct button 1 (for more than 2 seconds) while holding in the DSP button,then turn the power back on.

■ERROR DISPLAYS

If an error occurs,one of the following displays is displayed.
Take the measures described below to eliminate the problem.

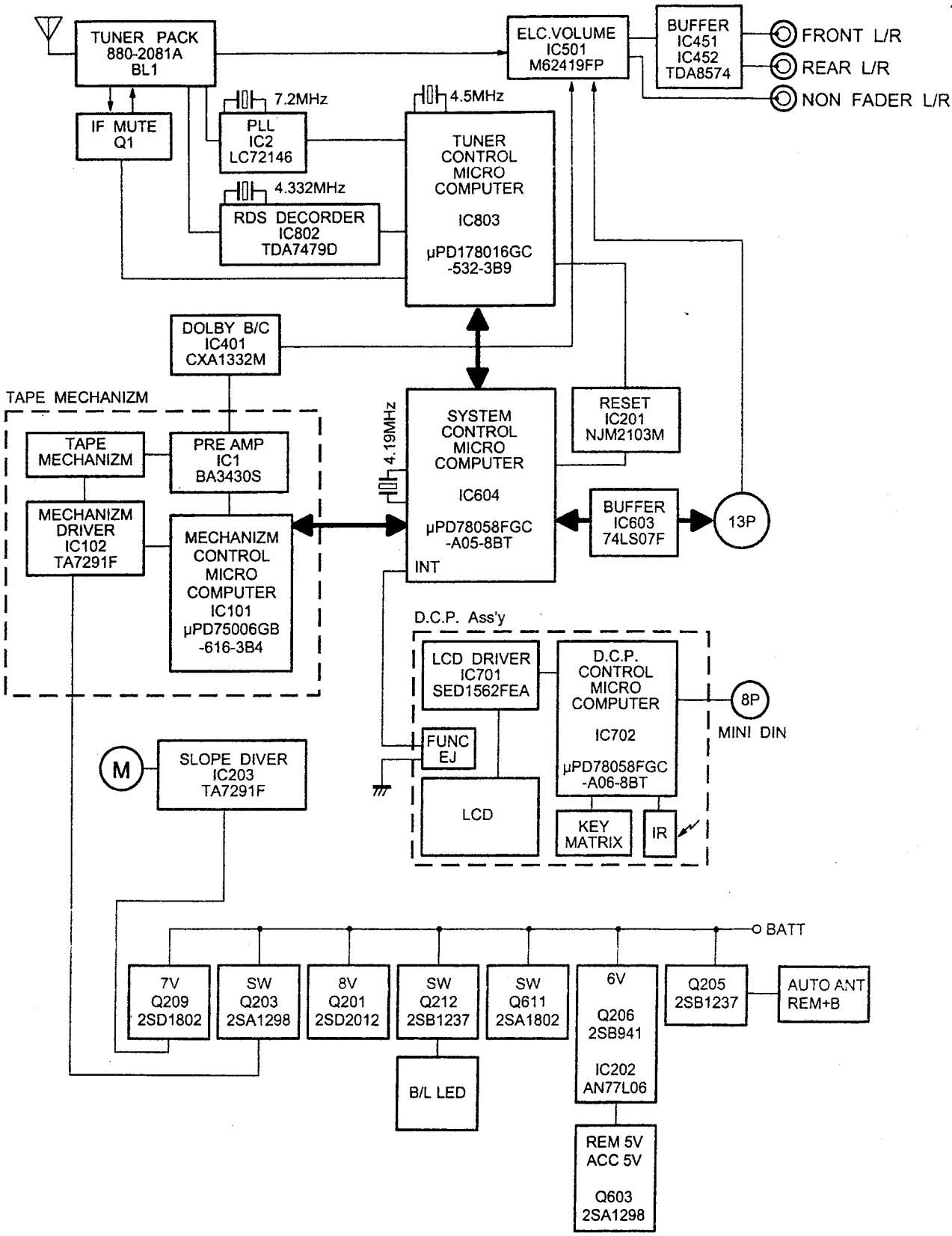
Error Display	Cause	Measure
TAPE ER1	Tape cannot be played due to defective tape such as cut tape.	Eject the tape then replace it with a new one.
TAPE ER2	Tape is caught and cannot be played.	Remove the caught or wound tape.
TAPE ER4	Tape mode cannot be detected.	This is a failure of tape mechanism.
TAPE ER8	Tape is caught and cannot be ejected.	Eliminate the reason for which the tape is caught.
CDCH ER2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
CDCH ER3	A CD inside the CD changer cannot be played due to scratches,etc.	Replace with a non-scratched,non-warped-disc.
CDCH ER6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
EQ ER99	Communication error between main unit and expanded DSP/EQ.	Connect the expanded DSP/EQ connecting cable securely.

If an error display other than the ones described above appears,press the reset button.

■ADJUSTMENTS

Item	Procedure	Measuring instrument
FM S-meter	1. Input the 98.1MHz/30dB μ(400Hz-MOD 30%)signal. 2. Adjust the output of TP1(SM) to 2.4±0.1V by VR1.	SSG AC voltmeter
FM SD	1. Input the 98.1MHz/22dB μ(400Hz-MOD 30%)signal. 2. Adjust the output of TP2(SD) to just high by VR2.	SSG OSC
Dolby level	1. Playback a Dolby level test tape(400Hz-200nWb/m),connect the AC-volt meter to TP401(L)/TP402(R). 2. Adjust the output to 388mV+1.5/−0.5dB by VR401(L)/VR402(R). (Dolby switch:OFF)	AC-voltmeter Dolby level tape
Tape speed	1. Playback a Wow & flutter tape, and adjust the line output to 3000± 45Hz by motor speed VR of power motor.	Wow & flutter tape Frequency counter
Azimuth Ajustment	1. Make playback for the azimuth-tape(10kHz,-10VU),and turn each azimuth-ajusting-screw to make aech FWD & REV maximum> 2. After ajusrment,make adhesion with bond.	Milli-voltmerter Azimuth-tape

■BLOCK DIAGRAM



■EXPLANATION OF IC

■μPD78058FGC-A05-8BT 052-3336-00 Master Micro Computer

Outward Form

80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1	N.C.	I	Not in use
2	OPEN EJECT	I	Set up terminal
3	E/U	I	Lo for Europe, Hi for USA
4	AVSS	–	GND terminal for A/D converter. Connected to GND
5	BLINK LED	O	Blinking LED output port
6	N.C.	I	Not in use
7	AVREF 1	I	Basic electrical power supply terminal for D/A converter. Connected to VDD
8 9 10	N.C.	I	Not in use
11 12 13 14 15	DISP SI DISP SO DISP SCK DISP RESET DISP BUSY	I O I/O O O	Communication line between DCP micro computer
16 17 18	C-BUS SI C-BUS SO C-BUS SCK	I O O	C-BUS communication line
19 \ 26	AD 0 \ AD 7	I/O	Communication line for address and data between S-RAM
27 28 29	A 8 A 9 A 10	O	Outputs address signal to S-RAM
30	N.C.	I	Not in use
31	C-BUS SRQ	I	C-BUS SRQ input terminal
32	ACC-CONT	O	ACC CONT signal output terminal
33	VSS	–	Micro computer GND terminal
34	N.C.	I	Not in use
35	DCP OUT	O	Hi in detecting A/d port
36	5V REM	O	Outputs power supply switching signal for REM 5V
37	SYS MUTE	O	Outputs system mute
38 39	N.C.	I	Not in use
40	RD	O	Outputs reading signal for S-RAM
41	WR	O	Outputs writing signal for S-RAM
42	S-RAM CE	O	S-RAM CE terminal
43	ASTB	O	Latch terminal for writing on S-RAM
44	PULSE DIMMER	O	Outputs blue LED dimmer. 4.4K
45 46	EVOL CLK EVOL DATA	O	Outputs signal to control electronic volume IC
47 \ 52	N.C.	I	Not in use
53	+B REM	O	Outputs switching signal for REM +5V power supply
54 55	MOTOR – MOTOR +	O	Output terminal to control signal for slope motor
56 57	CLOSE OPEN	I	Detects slope open/close
58	SLOPE MOTOR	O	Outputs power supply switching signal for slope
59	N.C.	O	Not in use
60	RESET	I	Reset signal input terminal
61	DISP REQ	I	Inputs interrupt signal from DCP micro computer
62	B/U DET	I	Detects B/U power supply
63	ACC DET	I	Detects ACC OFF
64	KEY INT	I	Inputs OPEN/FUNC key interrupt signal
65	$\overline{\text{PACK DET}}$	I	Casset tape detect input
66	PHONE INT	I	Inputs phone interrupt signal
67	TIME BASE	I	Inputs time base for clock counting
68	VDD	–	Micro computer VDD terminal
69 70	X 2 X 1	– I	Connecting terminal for cellular Lock (or chrystal) (4.19 MHz)
71	IC	–	Testing terminal
72 73	XT 2 XT 1	– I	Not in use
74	AVDD	–	Power supply terminal for A/D converter. Connected to VDD.
75	AVREF 0	I	Basic power supply for A/D converter
76	CD TEMP	I	Temperature detecting terminal
77	KEY A/D	I	Detects DCP/OPEN/FUNC key
78	S-METER	I	S-meter signal input
79	ILLUMI DET	I	Detects illumination. Low for illumination ON
80	N.C.	I	Not in use

■μPD178016GC-516-3B9 052-1316-00 TV Controller

Outward Form

80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1 2	N.C.	I	Not in use
3	RDS S-METER	I	RDS S-METER voltage detection
4	RDS NOISE	I	RDS noise detection
5	N.C.	I	Not in use
6	E/U	I	Low for Europe, Hi for USA
7	RDS DISCHGE	O	Hi for DISCHGE
8 \ 11	N.C.	I	Not in use
12 13 14	C-BUS SI C-BUS SO C-BUS SCK	I O I	C-BUS communication line
15	RDS +B REM	O	Switches RDS power supply: Low except for AM
16	SD OPEN	O	Makes port Hi when FM SD Hi is input
17	FM LOCAL	O	Switches FM DX / LO: Low when local
18	SD UP	O	Low when following-up RDS
19	AM LOCAL	O	Switches AM DX/LO: Low when local
20	N.C.	O	Not in use
21	PORT GND	–	I/O port GND terminal
22	PORT VDD	–	I/O port power supply
23	RDS MUTE	O	Hi when RDS IF MUTE is output
24 \ .6	N.C.	O	Not in use
.7	IF REQ	O	Lo when RADIO IF signal requested
28	AM IFC	I	AM IF signal input terminal
29	FM IFC	I	FM IF signal input terminal
30	PLL VDD	–	PLL circuit power supply terminal
31	FM IN	I	FM OSC signal input terminal
32	AM IN	I	AM OSC signal input terminal

No.	Symbol	I/O	Function
33	PLL GND	–	PLL circuit GND terminal
34	EO 0	O	AM error out signal output terminal
35	EO 1	O	FM error out signal output terminal
36	IC-TEST	–	Connect to GND
37	AM SD	I	AM SD detection: Hi for SD ON
38	FM SD	I	FM SD detection: Hi for SD ON
39	FM ST	I	FM ST detection: Low for ST
40 \ 44	N.C.	I	Not in use
45	RADIO MUTE	O	Outputs MUTE for RADIO micro computer
46	FM ON	O	Switches FM power supply
47	AM ON	O	Switches AM power supply
48	C-BUS SRQ	O	Outputs C-BUS SRQ signal
49 \ 52	N.C.	I	Not in use
53 54 55 56	PLL DI PLL SCK PLL DO PLL CE	I O O O	PLL IC control line
57 \ 65	N.C.	I	Not in use
66	RDS DATA	I	Inputs data from decoder
67	RDS CLK	I	Inputs CLK signal from decoder
68	ACC CONT	I	Detects ACC CONT
69 \ 73	N.C.	I	Not in use
74	REG CPU	–	CPU power supply terminal: Connected with condenser.
75	GND	–	Micro computer GND terminal
76 77	X 2 X 1	– I	Connecting crystal terminal (4.5 MHz)
78	REG OSC	–	Power supply terminal for oscillation circuits: Connected with condenser.
79	VDD	–	CPU power supply terminal
80	RESET	I	RESET signal input terminal

■μPD78058FGC-A06-8BT 052-7025-00 D.C.P. Computer

Outward Form

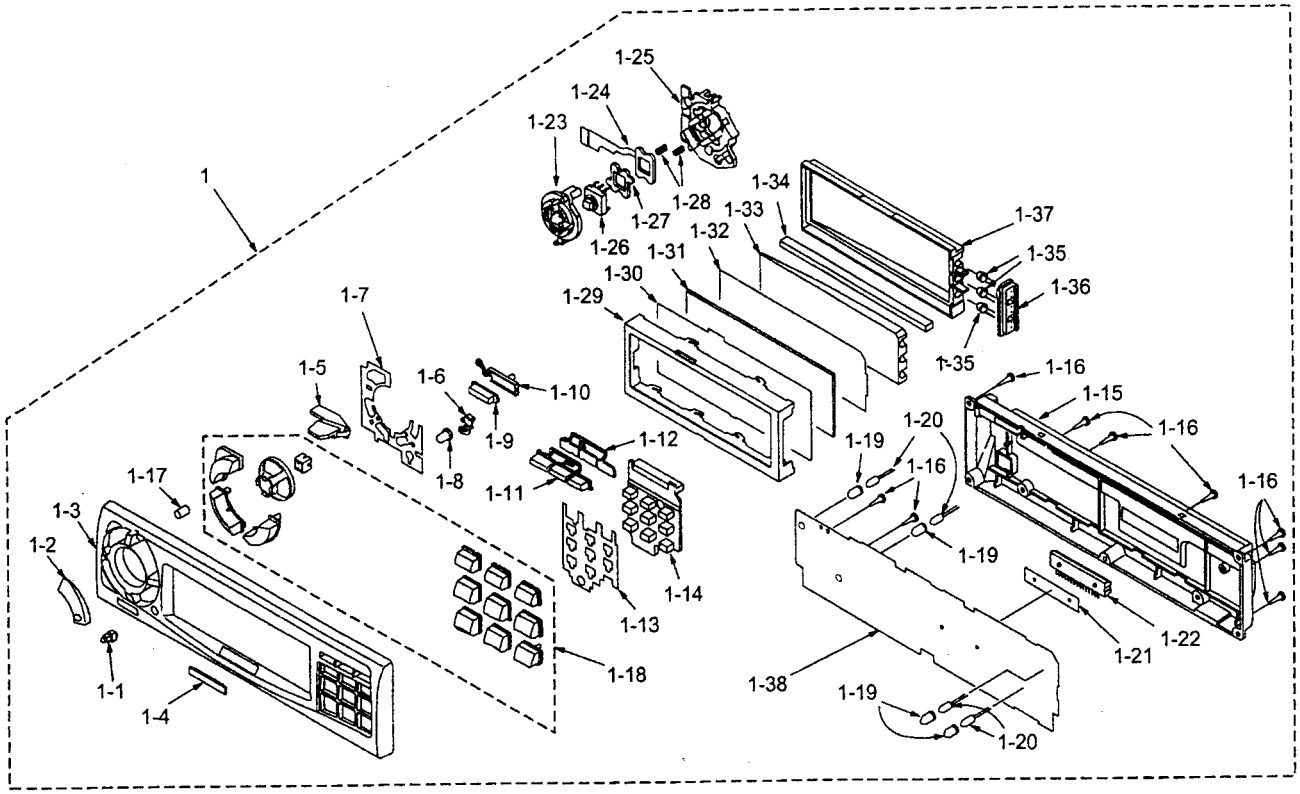
80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1 \ 3	N.C.	O	Not in use
4	AVSS	–	A/D converter GND terminal. Connected to GND
5	DISP REQ	O	Outputs request to master micro computer
6	CONT OUT	O	Outputs LCD contrast control
7	AVREF 1	I	Basic electrical power supply terminal for D/A converter. Connected to VDD.
8 9	B.B. RXD B.B. TXD	I O	Communication line between B.B DSP
10	N.C.	O	Not in use
11 12 13	DISP SI DISP SO DISP SCK	I O I/O	Communication line between master micro computer
14 \ 18	N.C.	O	Not in use
19 \ 26	D 0 \ D 7	O	Control data line for LCD driver
27 \ 32	N.C.	O	Not in use
33	VSS	–	GND
34 35	N.C.	O	Not in use
36 \ 39	KO 0 \ KO 3	O	Key signal output terminal for key matrix
40	RD	O	LCD driver- read strove
41	WR	O	LCD driver -write strove
42	AO	O	Detects the data/command for the last bit
43	CS	O	Selecting terminal for LCD driver chip
44 \ 51	N.C.	O	Not in use
52 \ 57	KR 0 \ KR 5	I	Inputs key signal for key matrix
58 59	N.C.	O	Not in use
60	RESET	I	Reset signal input terminal
61	REMOCON	I	Remote signal input terminal
62	N.C.	I	Not in use
63	B.B. REQ	I	Inputs B.B DSP interrupt signal
64	DISP BUSY	I	Inputs busy signal from master micro computer
65 66 67	N.C.	I	Not in use
68	VDD	–	Micro computer VDD terminal
69 70	X 2 X 1	– I	Ceramic lock connecting terminal (4.91MHz)
71	IC	–	Not in use
72 73	XT 2 XT 1	– I	Not in use
74	AVDD	–	Power supply terminal for A/D converter. Connected to VDD
75	AVREF 0	I	Basic power supply for A/D converter. Connected to REM+5V
76	FHOTO TR DET	I	Sets output power by input DC voltage
77	TEMP DET	I	Temperature detecting terminal for LCD
78 \ 80	N.C.	O	Not in use

■EXPLODED VIEW • PARTS LIST

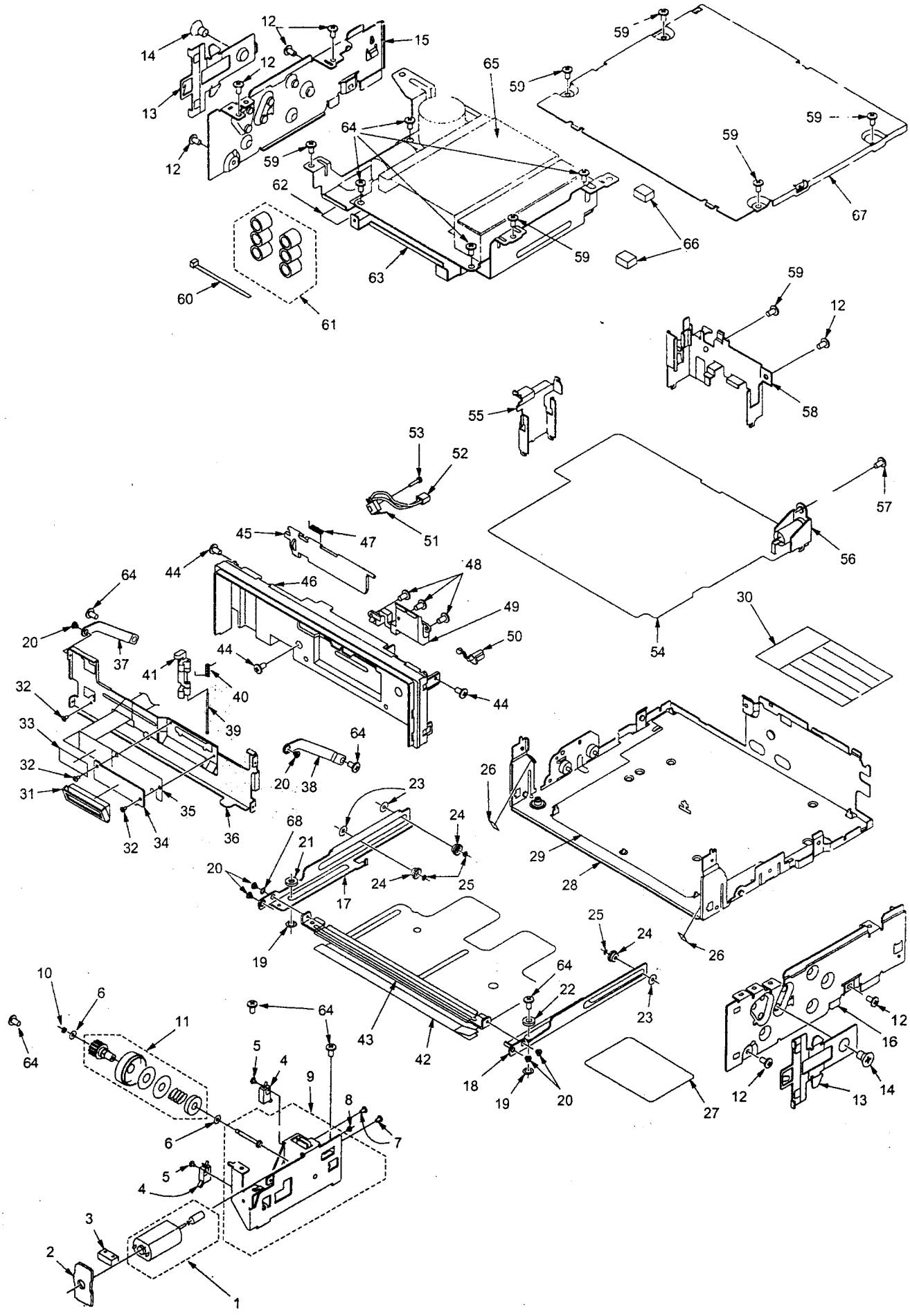
D.C.P. section



NO.	PART	DESCRIPTION	Q'TY
1	940-1893A 940-1894A	D.C.P. ASSY(ARX9470R) D.C.P. ASSY(ARX9470RW)	1
1-1	335-5256-00	INDICATOR LENS	1
1-2	335-5347-00	IR FILTER	1
1-3	370-5664-04 370-5664-05	ESCUTCHEON(ARX9470R) ESCUTCHEON(ARX9470RW)	1 1
1-4	378-0134-00	BADGE	1
1-5	382-4513-00	BUTTON	1
1-6	335-5257-00	BUTTON HOLDER	1
1-7	347-5432-00	FILM	1
1-8	382-4386-00	BUTTON	1
1-9	382-4511-00	BUTTON	1
1-10	335-5348-00	BUTTON HOLDER	1
1-11	382-4514-00	BUTTON	1
1-12	335-5258-00	BUTTON HOLDER	1
1-13	345-7863-00	SPONGE(R)	1
1-14	335-5259-00	ILLUMI PLATE	1
1-15	335-5346-00	REAR COVER	1
1-16	716-0872-11	SPECIAL SCREW	9
1-17	822-0005-03	HEAT PROOF TUBE	1
1-18	947-0429-01	BUTTON ASSY	1

NO.	PART	DESCRIPTION	Q'TY
1-19	345-4441-37	LAMP CAP	4
1-20	017-0444-00	PILOT LAMP	4
1-21	347-5482-00	SPACER	1
1-22	076-0535-00	PLUG	1
1-23	335-5275-00	JOG HOLDER	1
1-24	039-0857-00	JOG SWITCH PWB	1
1-25	335-5277-00	ILLUMI PLATE	1
1-26	013-9901-00	JOG SWITCH	1
1-27	335-5276-00	SPACER	1
1-28	750-3248-00	SPRING	2
1-29	331-2080-00	LCD COVER	1
1-30	347-5479-00	FILM	1
1-31	379-1120-71	INDICATOR	1
1-32	347-5408-00	CCS FILM	1
1-33	335-5262-00	LCD ILLUMI PLATE	1
1-34	345-7864-00	RUBBER CONNECTOR	1
1-35	001-7030-00	DIODE	3
1-36	335-5263-00	LED HOLDER	1
1-37	335-5260-00	LCD HOLDER	1
1-38	039-0944-00	SWITCH PWB	1

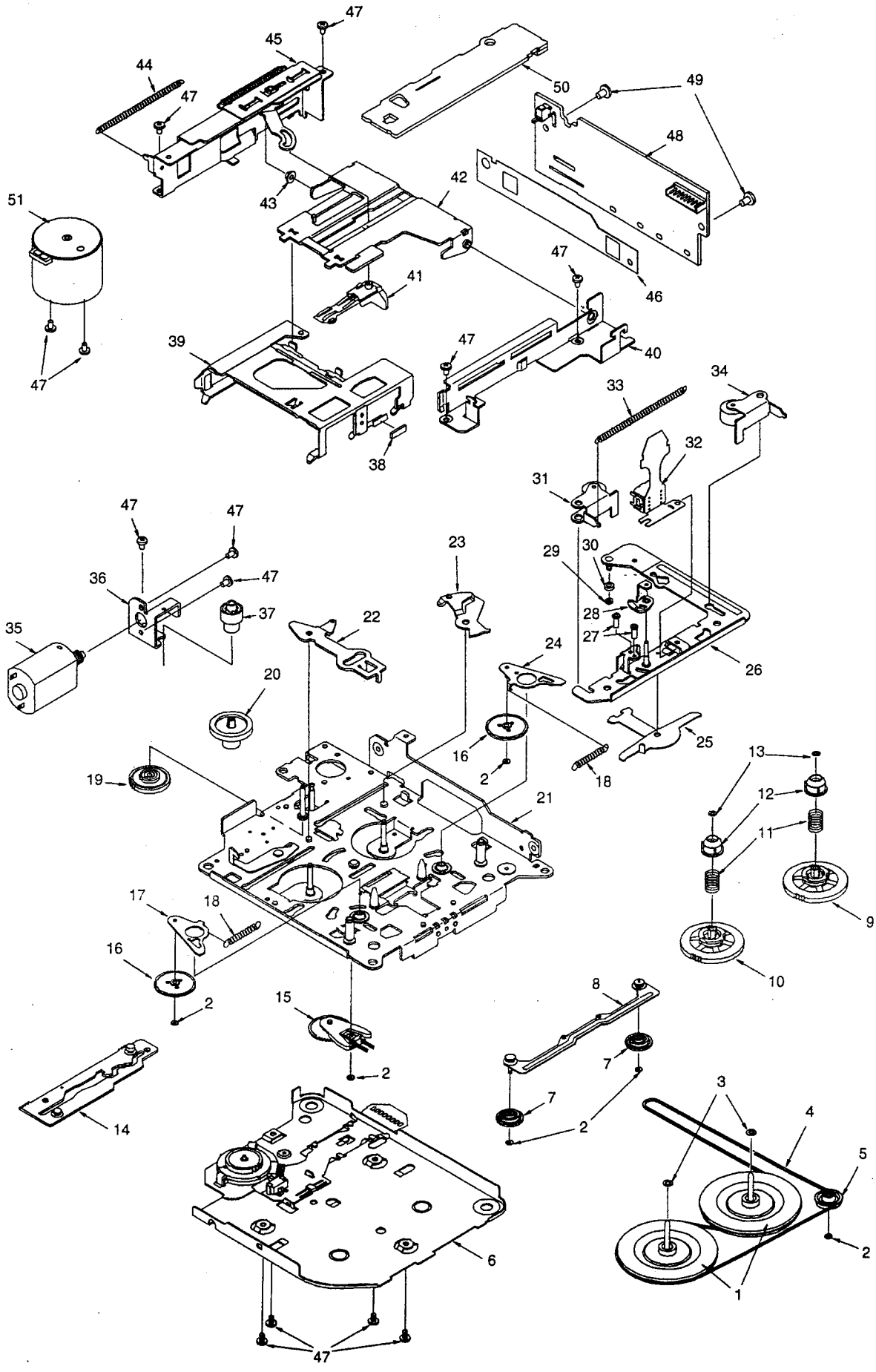
Main section



NO.	PART	DESCRIPTION	Q'TY
1	948-0355-01	MOTOR ASSY	1
2	039-0915-00	MOTOR PWB	1
3	076-0349-04	PLUG	1
4	013-3757-00	SWITCH	2
5	716-0670-01	SPECIAL SCREW	2
6	745-0646-00	SPECIAL WASHER	2
7	716-0882-00	MOTOR SCREW	2
8	621-0034-01	TRUST HOLDER	1
9	946-0062-00	GEAR BOX ASSY	1
10	743-1500-10	E-RING	1
11	960-4409-00	T LOAD GEAR ASSY	1
12	731-2605-80	TAP TIGHT	7
13	750-2796-02	SPRING	2
14	714-5008-41	MACHINE SCREW	2
15	305-0255-00	SIDE COVER(LEFT)	1
16	305-0256-00	SIDE COVER(RIGHT)	1
17	683-0063-00	SLIDE PLATE(L)	1
18	683-0064-00	SLIDE PLATE(R)	1
19	746-0903-00	SPECIAL WASHER	2
20	716-1715-02	DECO SCREW	6
21	340-4368-00	SPACER(L)	1
22	340-4369-00	SPACER(R)	1
23	746-0902-00	SPECIAL WASHER	3
24	610-0366-00	ROLLER	3
25	746-0901-00	SPECIAL WASHER	3
26	347-5470-00	SPACER	2
27	286-8983-00 286-8984-00	SET PLATE(ARX9470R) SET PLATE(ARX9470RW)	1 1
28	946-0061-00	LOWER CASE ASSY	1
29	347-5464-01	INSULATOR	1
30	286-8985-00 286-8986-00	ID-CARD LABEL(ARX9470R) ID-CARD LABEL(ARX9470RW)	1 1
31	074-1145-00	OUTLET SOCKET	1
32	738-1728-17	PRECISION SCREW	3
33	291-0080-01	STICKER	1
34	039-0914-01	CONNECT PWB	1

NO.	PART	DESCRIPTION	Q'TY
35	039-0807-00	F.P.C.	1
36	331-2028-01	DCP HOLDER	1
37	331-0578-00	LEVER(L)	1
38	331-0577-00	LEVER(R)	1
39	341-1633-00	SHAFT	1
40	750-3251-00	SPRING	1
41	335-5349-00	HOOK	1
42	347-5463-01	INSULATOR	1
43	331-2031-00	SLIDE ARM	1
44	780-2005-00	SPECIAL SCREW	3
45	320-0525-14	DUST PROOF COVER	1
46	370-5667-01	INNER ESCUTCHEON	1
47	750-2626-00	SPRING	1
48	716-1764-00	PAD SCREW	3
49	335-5351-00	ILLUMI. PLATE	1
50	382-4515-00	BUTTON(RESET)	1
51	013-7103-00	SWITCH	1
52	854-3298-00	EXTENSION LEAD	1
53	716-0872-12	PAD SCREW	1
54	039-1131-00	MAIN PWB	1
55	313-1681-00	HEART SINK	1
56	092-9000-01	ANT RECEPTACLE	1
57	714-3005-81	MACHINE SCREW	1
58	331-2029-00	CONNECT BRACKET	1
59	731-3006-80	TAP TIGHT	7
60	335-0833-01	LEAD HOLDER	1
61	345-3799-00	RUBBER PART(RCA CAP)	6
62	347-5472-00	INSULATOR	1
63	331-2027-01	MECHANISM BRACKET	1
64	714-2605-81	MACHINE SCREW	10
65	930-0738-80	TAPE MECHANISM	1
66	345-7017-00	SPACER	2
67	303-0460-00	UPPER COVER	1
68	347-5471-00	SPACER	1

Tape mechanism section : 930-0738-80



NO.	PART	DESCRIPTION	Q'TY
1	611-0091-03	FLYWHEEL	2
2	746-0724-00	WASHER	6
3	746-0624-00	WASHER	2
4	602-0118-00	BELT	1
5	604-0046-00	TENTION PULLEY	1
6	960-4338-07	BOTTOM SUB ASSY	1
7	613-0286-02	FF/REW GEAR	2
8	960-4262-03	FF/REW PLATE ASSY	1
9	960-4348-90	REEL ASSY F	1
10	960-4349-90	REEL ASSY R	1
11	750-2949-00	SLIDE SPRING	2
12	631-1993-01	SLIDE BUSH	2
13	746-0761-00	WASHER	2
14	960-4266-20	MODE POLATE ASSY	1
15	960-4282-06	DETECT SUB ASSY	1
16	613-0285-02	IDLER GEAR	2
17	960-4264-03	IDOLER PLATE ASSY R	1
18	750-3148-00	IDLER SPRING	2
19	613-0337-00	POWER GEAR	1
20	613-0289-01	GEAR A	1
21	960-4405-20	DECK PLATE ASSY	1
22	960-4301-02	PLAY LINK ASSY	1
23	630-2598-05	EJECT LINK	1
24	960-4263-03	IDOLER PLATE ASSY F	1
25	630-2718-00	CHANGE LINK	1
26	960-4404-01	HEAD PLATE ASSY	1

NO.	PART	DESCRIPTION	Q'TY
27	716-0833-10	AZIMUTH SCREW	2
28	630-2600-01	ADJUST LINK	1
29	746-0762-00	WASHER	1
30	610-0342-01	HADE PLATE ROLLER	1
31	960-4270-05	ROLLER ASSY R	1
32	011-0307-28	HEAD	1
33	750-2946-02	PINCH SPRING	1
34	960-4269-05	ROLLER ASSY F	1
35	SMA-131-100	POWER MOTOR ASSY	1
36	630-2601-02	MOTOR PLATE	1
37	613-0288-01	HELICAL GEAR	1
38	746-0883-00	CLEANING PAD	1
39	960-4406-02	PACK GUIDE ASSY	1
40	630-2626-05	PWB FRAME	1
41	631-1992-02	PACK STOPPER	1
42	630-2642-01	GUIDE ARM	1
43	610-0343-00	GUIDE A ROLLER	1
44	750-2947-04	EJECT PLATE SPRING	1
45	960-4389-20	EJECT SUB ASSY	1
46	347-4080-01	INSULATOR	1
47	716-0484-00	SCREW	13
48	039-0367-01	REAR PWB	1
49	716-0761-01	PWB SCREW	2
50	039-0053-00	SIDE PWB	1
51	SMA-130-100	MAIN MOTOR ASSY	1

■ELECTRICAL PARTS LIST

Note)Several different parts of the same reference number are alternative parts.One of those parts is used in the set.

Switch PWB section (B1)

REFNo.	PART No.	DESCRIPTION
C 701	178-1032-78	0.01 μF
C 702	042-0397-00	16V1 μF TAN
C 703	178-1032-78	0.01 μF
C 704	042-0397-00	16V1 μF TAN
C 705	178-1042-78	0.1 μF
C 706	178-1042-78	0.1 μF
C 707	178-1042-78	0.1 μF
C 708	178-1042-78	0.1 μF
C 709	178-1042-78	0.1 μF
C 710	178-2232-78	0.022 μF
C 711	176-1011-00	100pF CH
C 712	178-2232-78	0.022 μF
C 713	042-0416-02	6.3V10 μF
C 714	178-1032-78	0.01 μF
C 716	042-0416-02	6.3V10 μF
C 717	042-0416-02	6.3V10 μF
C 719	178-2222-78	2200pF
CCT701	050-0122-00	10kΩx4
D 701	001-7030-00	NSPB310A
D 702	001-7030-00	NSPB310A
D 703	001-7030-00	NSPB310A
D 704	001-0516-00	MA111
IC 701	051-6018-00	SED1526FEA
IC 702	052-7025-00	μPD78058FGC-A06-3B9
IR 701	060-4008-00	
L 701	010-2198-56	2.2 μH
L 702	010-2199-16	2.2 μH J
P 701	076-0535-00	
PL 701	017-0444-00	14V 50mA
PL 702	017-0444-00	14V 50mA
PL 703	017-0444-00	14V 50mA
PL 704	017-0444-00	14V 50mA
Q 701	060-0150-00	PN268-R
R 702	032-0090-84	1MΩ
R 703	032-0092-80	1/10W 330Ω
R 704	032-0092-80	1/10W 330Ω
R 705	032-0092-80	1/10W 330Ω
R 706	032-0092-80	1/10W 330Ω
R 707	032-0092-80	1/10W 330Ω
R 708	032-0092-80	1/10W 330Ω
R 710	117-1031-10	1/10W 10kΩ
R 711	117-1031-10	1/10W 10kΩ
R 712	117-1031-10	1/10W 10kΩ
R 713	117-1011-10	1/10W 100Ω
R 714	117-2241-10	1/10W 220kΩ
R 715	117-1031-10	1/10W 10kΩ
R 716	117-3921-10	1/10W 3.9kΩ
R 717	117-1241-10	1/10W 120kΩ
R 718	117-1011-10	1/10W 100Ω
R 719	117-1011-10	1/10W 100Ω
R 720	117-1011-10	1/10W 100Ω
R 721	117-1011-10	1/10W 100Ω
R 722	117-1011-10	1/10W 100Ω
R 723	117-1011-10	1/10W 100Ω
R 724	117-1011-10	1/10W 100Ω
R 725	117-1011-10	1/10W 100Ω
R 726	117-1011-10	1/10W 100Ω
R 728	032-0090-83	910kΩ
R 729	032-0090-76	39kΩ
S 701	013-6006-00	
S 706	013-6302-01	
S 707	013-6302-01	
S 708	013-6302-01	
S 709	013-6302-01	
S 710	013-6302-01	
S 711	013-6302-01	
S 712	013-6302-01	
S 713	013-6302-01	
S 714	013-6302-01	
S 715	013-6302-01	
S 716	013-6302-01	
S 717	013-6302-01	
S 718	013-6302-01	
S 719	013-6302-01	
S 720	013-6302-01	
S 721	013-6302-01	
S 722	013-6302-01	
S 723	013-6302-01	
S 724	013-6302-01	
S 750	013-9901-00	
TH 701	002-0216-07	22kΩ
X 701	060-1009-00	4.91MHz

Main PWB section (B2)

REFNo.	PART No.	DESCRIPTION
ANT 1	092-9000-01	
BL 1	880-2081A	AM/FM TUNER
C 1	178-2232-78	0.022 μF
C 2	178-2232-78	0.022 μF
C 3	176-1011-00	100pF CH
C 4	178-2232-78	0.022 μF
C 5	178-1032-78	0.01 μF
C 6	178-2232-78	0.022 μF
C 7	178-2232-78	0.022 μF
C 8	176-2211-00	220pF CH
C 9	178-5622-78	5600pF
C 10	178-1222-78	1200pF
C 11	163-1053-60	50V1 μF
C 12	178-1042-78	0.1 μF
C 13	178-1032-78	0.01 μF
C 14	176-1011-00	100pF CH
C 15	176-1011-00	100pF CH
C 16	176-1011-00	100pF CH
C 17	176-1011-00	100pF CH
C 18	176-1011-00	100pF CH
C 19	176-1501-00	15pF CH
C 20	176-1801-00	18pF CH
C 21	183-4763-11	6.3V47 μF
C 22	176-2211-00	220pF CH
C 23	176-2211-00	220pF CH
C 24	176-2211-00	220pF CH
C 25	176-2211-00	220pF CH
C 27	178-2242-78	0.22 μF
C 43	176-2211-00	220pF CH
C 201	183-1073-21	10V100 μF
C 202	183-4763-31	16V47 μF
C 203	172-1041-11	0.1 μF
C 204	184-4773-32	16V470 μF
C 206	042-0576-00	5.5V0.1 μF
C 207	183-4763-31	16V47 μF
C 208	178-2232-78	0.022 μF
C 209	172-4731-11	0.047 μF
C 210	183-1063-31	16V10 μF
C 211	042-0452-02	16V100 μF
C 212	183-1063-31	16V10 μF
C 213	183-1063-31	16V10 μF
C 214	176-1011-00	100pF CH
C 215	176-1011-00	100pF CH
C 216	178-1042-78	0.1 μF
C 401	173-2221-11	2200pF J
C 402	173-2221-11	2200pF J
C 403	042-0537-00	50V0.56 μF
C 404	183-3343-61	50V0.33 μF
C 405	183-1063-31	16V10 μF
C 406	183-4753-51	35V4.7 μF
C 407	183-4753-51	35V4.7 μF
C 408	183-4753-51	35V4.7 μF
C 409	042-0537-00	50V0.56 μF
C 410	183-3343-61	50V0.33 μF
C 411	173-2221-11	2200pF J
C 412	173-2221-11	2200pF J
C 451	183-1063-31	16V10 μF
C 452	183-1063-31	16V10 μF
C 453	178-1522-78	1500pF
C 454	178-1522-78	1500pF
C 455	183-1073-21	10V100 μF
C 456	183-1073-21	10V100 μF
C 457	183-1063-31	16V10 μF
C 458	183-1063-31	16V10 μF
C 459	183-1063-31	16V10 μF
C 460	183-1063-31	16V10 μF
C 461	183-4763-31	16V47 μF
C 462	178-1522-78	1500pF
C 463	183-1073-21	10V100 μF
C 464	183-1073-21	10V100 μF
C 465	178-1522-78	1500pF
C 466	183-1063-31	16V10 μF
C 467	183-1063-31	16V10 μF
C 468	183-1063-31	16V10 μF
C 469	184-2273-22	10V220 μF
C 470	183-1063-31	16V10 μF
C 471	183-4763-31	16V47 μF
C 501	183-2253-62	50V2.2 μF
C 502	178-6832-78	0.068 μF
C 503	176-1501-00	15pF CH
C 504	183-1063-31	16V10 μF
C 505	176-1811-00	180pF CH
C 506	183-4753-51	35V4.7 μF
C 507	183-2243-61	50V0.22 μF
C 508	173-4721-11	4700pF J
C 509	183-4753-51	35V4.7 μF
C 510	183-1063-31	16V10 μF
C 511	183-2263-11	6.3V22 μF
C 512	172-5631-11	0.056 μF
C 513	173-4721-11	4700pF J
C 514	178-2232-78	0.022 μF
C 515	178-1532-78	0.015 μF
C 516	178-1532-78	0.015 μF
C 517	183-2263-11	6.3V22 μF
C 518	172-5631-11	0.056 μF
C 519	173-4721-11	4700pF J
C 520	183-4753-51	35V4.7 μF
C 521	183-1063-31	16V10 μF
C 522	183-2243-61	50V0.22 μF
C 523	173-4721-11	4700pF J
C 524	183-1063-31	16V10 μF
C 525	176-1811-00	180pF CH
C 526	183-4753-51	35V4.7 μF
C 527	176-1501-00	15pF CH
C 528	178-6832-78	0.068 μF
C 529	183-2253-62	50V2.2 μF
C 530	183-1063-31	16V10 μF
C 531	183-4753-51	35V4.7 μF
C 532	183-1053-61	50V1 μF
C 601	178-1032-78	0.01 μF
C 603	176-1011-00	100pF CH
C 604	176-1011-00	100pF CH
C 605	176-1011-00	100pF CH
C 606	176-1011-00	100pF CH
C 607	176-1011-00	100pF CH
C 608	176-1011-00	100pF CH
C 609	178-1042-78	0.1 μF

REFNo.	PART No.	DESCRIPTION
C 610	178-1032-78	0.01 μF
C 611	042-0458-06	10V22 μF
C 612	173-1021-11	1000pF J
C 613	176-1011-00	100pF CH
C 615	178-4712-78	470pF
C 616	176-2211-00	220pF CH
C 617	176-1011-00	100pF CH
C 619	176-1011-00	100pF CH
C 620	176-2211-00	220pF CH
C 621	178-2232-78	0.022 μF
C 628	178-4732-78	0.047 μF
C 629	183-1063-31	16V10 μF
C 630	178-1032-78	0.01 μF
C 631	178-1032-78	0.01 μF
C 632	178-1032-78	0.01 μF
C 633	178-2232-78	0.022 μF
C 634	176-1011-00	100pF CH
C 801	178-2232-78	0.022 μF
C 802	178-5612-78	560pF
C 803	178-1032-78	0.01 μF
C 804	178-5612-78	560pF
C 805	178-2232-78	0.022 μF
C 806	176-1011-00	100pF CH
C 807	183-2253-62	50V2.2 μF
C 808	178-3312-78	330pF
C 809	176-2211-00	220pF CH
C 811	183-4763-11	6.3V47 μF
C 813	178-1042-78	0.1 μF
C 814	183-2263-11	6.3V22 μF
C 815	178-1042-78	0.1 μF
C 816	178-1042-78	0.1 μF
C 817	176-8201-00	82pF CH
C 818	176-4701-00	47pF CH
C 820	178-2232-78	0.022 μF
C 825	176-1011-00	100pF CH
C 826	176-1011-00	100pF CH
C 827	178-2232-78	0.022 μF
C 911	178-1022-78	1000pF
C 912	178-1022-78	1000pF
D 2	001-0540-00	HVM187WK
D 201	001-0377-46	MA4091L
D 202	001-0466-00	S5688B
D 203	001-0466-00	S5688B
D 204	001-0516-00	MA111
D 205	001-0516-00	MA111
D 206	001-0466-00	S5688B
D 207	001-0330-00	1SS119
D 208	001-0516-00	MA111
D 209	001-0377-11	MA4030M
D 210	001-0423-22	MA4075
D 501	001-0516-00	MA111
D 502	001-0516-00	MA111
D 503	001-0528-43	MA8082-L
D 601	001-0516-00	MA111
D 602	001-0516-00	MA111
D 603	001-0516-00	MA111
D 606	001-0330-00	1SS119
D 607	001-0516-00	MA111
D 608	001-0589-00	1SS145
D 609	001-0516-00	MA111
D 610	001-0516-00	MA111
D 612	001-0516-00	MA111
D 801	001-0516-00	MA111
D 802	001-0516-00	MA111
D 803	001-0516-00	MA111
D 804	001-0516-00	MA111
D 805	001-0516-00	MA111
IC 2	051-6201-00	LC72146M
IC 201	051-0869-55	NJM2103M
IC 202	051-3201-00	AN77L06
IC 203	051-1014-05	TA7291F
IC 401	051-5200-90	CXA1332M
IC 451	051-5810-00	TDA8574T
IC 452	051-5810-00	TDA8574T

REFNo.	PART No.	DESCRIPTION
IC 501	051-5008-00	M62419FP
IC 502	051-0350-55	NJM4558M
IC 601	051-1051-05	TC74HC573A
IC 602	051-1046-46	LC3517BML-12
IC 603	051-7400-06	HD74LS07FP
IC 604	052-3336-00	μPD78058FGC-A05-8BT
IC 801	051-0350-55	NJM4558M
IC 802	051-1819-50	TDA7479D
IC 803	052-1316-10	μPD178016GC-532-3B9
J 601	074-1081-08	
J 602	074-1048-17	
J 606	074-1126-10	
J 607	076-0313-02	
L 1	010-2330-02	0.33 μH J
L 2	010-4007-00	30 μH
L 3	010-2230-64	2.2 μH
L 4	010-2230-76	22 μH
L 5	010-2230-76	22 μH
L 6	010-2230-88	220 μH
L 7	010-2330-04	0.47 μH J
L 201	010-2230-76	22 μH
L 451	010-2230-88	220 μH
L 601	010-2198-66	22 μH
L 602	010-2198-56	2.2 μH
L 603	010-2230-88	220 μH
L 604	010-2198-56	2.2 μH
L 605	010-2230-64	2.2 μH
L 606	010-2230-88	220 μH
L 803	010-2230-88	220 μH
P 101	076-0506-09	9P
P 102	076-0506-09	9P
PL 201	001-0412-17	GC-3HD8
PL 201	017-0433-07	14V40mA
Q 1	103-1306-00	2SD1306
Q 2	125-0002-03	RN2403
Q 3	125-2004-03	RN1403
Q 4	100-1162-00	2SA1162
Q 5	100-1298-00	2SA1298
Q 6	108-0669-00	2SK669
Q 201	103-2012-00	2SD2012
Q 202	108-0241-50	2SK241Y.GR
Q 203	100-1298-00	2SA1298
Q 204	125-2004-06	RN1406
Q 205	101-1237-00	2SB1237
Q 206	101-0941-00	2SB941
Q 207	125-2004-03	RN1403
Q 208	100-1162-00	2SA1162
Q 209	103-1802-60	2SD1802FA-R.S.T
Q 210	125-2004-03	RN1403
Q 211	102-2712-00	2SC2712
Q 212	101-1237-00	2SB1237
Q 213	125-0002-02	RN2402
Q 214	125-2004-03	RN1403
Q 215	125-2004-03	RN1403
Q 451	125-4001-00	XN1504
Q 452	125-4001-00	XN1504
Q 453	125-4001-00	XN1504
Q 501	125-0002-06	RN2406
Q 502	102-2712-00	2SC2712
Q 503	102-2712-00	2SC2712
Q 601	125-2004-03	RN1403
Q 602	102-2712-00	2SC2712
Q 603	100-1298-00	2SA1298
Q 604	102-2712-00	2SC2712
Q 605	100-1162-00	2SA1162
Q 606	102-2712-00	2SC2712
Q 607	125-2004-03	RN1403
Q 608	125-2004-06	RN1406
Q 611	100-1298-00	2SA1298
Q 801	125-2004-02	RN1402
R 1	117-1041-10	1/10W 100kΩ
R 2	117-1011-10	1/10W 100Ω

REFNo.	PART No.	DESCRIPTION
R 3	117-2221-10	1/10W 2.2kΩ
R 4	117-8221-10	1/10W 8.2kΩ
R 5	117-1041-10	1/10W 100kΩ
R 6	117-1021-10	1/10W 1kΩ
R 7	117-5631-10	1/10W 56kΩ
R 8	117-5621-10	1/10W 5.6kΩ
R 9	117-1031-10	1/10W 10kΩ
R 10	117-1031-10	1/10W 10kΩ
R 11	117-2221-10	1/10W 2.2kΩ
R 12	117-2221-10	1/10W 2.2kΩ
R 13	111-3311-91	1/4WS 330Ω
R 14	111-1031-91	1/4WS 10kΩ
R 15	117-1231-10	1/10W 12kΩ
R 16	117-1021-10	1/10W 1kΩ
R 17	117-2221-10	1/10W 2.2kΩ
R 18	117-1021-10	1/10W 1kΩ
R 19	117-1031-10	1/10W 10kΩ
R 20	117-1031-10	1/10W 10kΩ
R 21	117-4721-10	1/10W 4.7kΩ
R 22	117-1021-10	1/10W 1kΩ
R 23	117-1021-10	1/10W 1kΩ
R 24	117-1021-10	1/10W 1kΩ
R 25	117-1031-10	1/10W 10kΩ
R 26	117-2231-10	1/10W 22kΩ
R 27	117-1041-10	1/10W 100kΩ
R 28	117-1041-10	1/10W 100kΩ
R 29	117-1041-10	1/10W 100kΩ
R 30	117-1021-10	1/10W 1kΩ
R 202	111-1591-91	1/4WS 1.5Ω
R 203	111-1591-91	1/4WS 1.5Ω
R 204	111-1591-91	1/4WS 1.5Ω
R 205	111-1591-91	1/4WS 1.5Ω
R 206	117-1031-10	1/10W 10kΩ
R 207	117-2221-10	1/10W 2.2kΩ
R 208	117-1031-10	1/10W 10kΩ
R 209	111-1801-91	1/4WS 18Ω
R 210	111-1221-91	1/4WS 1.2kΩ
R 212	117-1031-10	1/10W 10kΩ
R 213	117-4721-10	1/10W 4.7kΩ
R 214	111-3911-91	1/4WS 390Ω
R 215	111-4700-91	1/4WS 47Ω
R 216	111-1221-91	1/4WS 1.2kΩ
R 217	117-2231-10	1/10W 22kΩ
R 218	117-2231-10	1/10W 22kΩ
R 219	117-1031-10	1/10W 10kΩ
R 220	117-2721-10	1/10W 2.7kΩ
R 401	117-1031-10	1/10W 10kΩ
R 402	117-1031-10	1/10W 10kΩ
R 403	117-2431-10	1/10W 24kΩ
R 404	117-1031-10	1/10W 10kΩ
R 405	117-5611-10	1/10W 560Ω
R 406	117-1021-10	1/10W 1kΩ
R 407	117-5611-10	1/10W 560Ω
R 408	117-2731-10	1/10W 27kΩ
R 409	117-2431-10	1/10W 24kΩ
R 451	117-3311-10	1/10W 330Ω
R 452	117-3311-10	1/10W 330Ω
R 453	117-1021-10	1/10W 1kΩ
R 454	117-2231-10	1/10W 22kΩ
R 455	117-2231-10	1/10W 22kΩ
R 456	117-3311-10	1/10W 330Ω
R 457	117-2231-10	1/10W 22kΩ
R 458	117-1021-10	1/10W 1kΩ
R 459	117-2231-10	1/10W 22kΩ
R 460	117-3631-10	1/10W 36kΩ
R 461	117-3631-10	1/10W 36kΩ
R 462	117-3311-10	1/10W 330Ω
R 463	117-2431-10	1/10W 24kΩ
R 464	117-2431-10	1/10W 24kΩ
R 465	117-3311-10	1/10W 330Ω
R 466	117-2231-10	1/10W 22kΩ
R 467	117-1021-10	1/10W 1kΩ
R 468	117-2231-10	1/10W 22kΩ
R 469	117-3311-10	1/10W 330Ω

REFNo.	PART No.	DESCRIPTION
R 470	117-3631-10	1/10W 36kΩ
R 471	117-3631-10	1/10W 36kΩ
R 472	117-2431-10	1/10W 24kΩ
R 473	117-2431-10	1/10W 24kΩ
R 501	117-3331-10	1/10W 33kΩ
R 502	117-1031-10	1/10W 10kΩ
R 503	117-6821-10	1/10W 6.8kΩ
R 504	117-1041-10	1/10W 100kΩ
R 505	117-6831-10	1/10W 68kΩ
R 506	117-6831-10	1/10W 68kΩ
R 507	117-1241-10	1/10W 120kΩ
R 508	117-4721-10	1/10W 4.7kΩ
R 509	117-4721-10	1/10W 4.7kΩ
R 510	117-1241-10	1/10W 120kΩ
R 511	117-6831-10	1/10W 68kΩ
R 512	117-6831-10	1/10W 68kΩ
R 513	117-1041-10	1/10W 100kΩ
R 514	117-6821-10	1/10W 6.8kΩ
R 515	117-1021-10	1/10W 1kΩ
R 516	117-1041-10	1/10W 100kΩ
R 517	117-1031-10	1/10W 10kΩ
R 518	117-3331-10	1/10W 33kΩ
R 519	117-1221-10	1/10W 1.2kΩ
R 520	117-1241-10	1/10W 120kΩ
R 521	117-1021-10	1/10W 1kΩ
R 522	117-4721-10	1/10W 4.7kΩ
R 523	117-1021-10	1/10W 1kΩ
R 524	117-2231-10	1/10W 22kΩ
R 525	117-4731-10	1/10W 47kΩ
R 526	117-4731-10	1/10W 47kΩ
R 527	117-4731-10	1/10W 47kΩ
R 528	117-4731-10	1/10W 47kΩ
R 601	117-4721-10	1/10W 4.7kΩ
R 602	117-1031-10	1/10W 10kΩ

REFNo.	PART No.	DESCRIPTION
R 603	117-1031-10	1/10W 10kΩ
R 604	117-1031-10	1/10W 10kΩ
R 605	117-2231-10	1/10W 22kΩ
R 606	117-4721-10	1/10W 4.7kΩ
R 607	117-1031-10	1/10W 10kΩ
R 608	117-1031-10	1/10W 10kΩ
R 609	117-1031-10	1/10W 10kΩ
R 610	117-1021-10	1/10W 1kΩ
R 611	117-1021-10	1/10W 1kΩ
R 612	117-1031-10	1/10W 10kΩ
R 613	117-4721-10	1/10W 4.7kΩ
R 614	117-1041-10	1/10W 100kΩ
R 615	117-1041-10	1/10W 100kΩ
R 616	117-1041-10	1/10W 100kΩ
R 617	117-1041-10	1/10W 100kΩ
R 618	117-1011-10	1/10W 100Ω
R 619	117-4721-10	1/10W 4.7kΩ
R 620	117-5611-10	1/10W 560Ω
R 621	117-2231-10	1/10W 22kΩ
R 622	117-4731-10	1/10W 47kΩ
R 624	117-1031-10	1/10W 10kΩ
R 627	117-5621-10	1/10W 5.6kΩ
R 629	117-2731-10	1/10W 27kΩ
R 630	117-4721-10	1/10W 4.7kΩ
R 632	117-1031-10	1/10W 10kΩ
R 633	117-1221-10	1/10W 1.2kΩ
R 634	117-1031-10	1/10W 10kΩ
R 635	117-4731-10	1/10W 47kΩ
R 636	117-2231-10	1/10W 22kΩ
R 637	117-4731-10	1/10W 47kΩ
R 639	117-4731-10	1/10W 47kΩ
R 641	117-4731-10	1/10W 47kΩ
R 642	117-2231-10	1/10W 22kΩ
R 644	117-1541-10	1/10W 150kΩ

REFNo.	PART No.	DESCRIPTION
R 645	117-2731-10	1/10W 27kΩ
R 646	117-2231-10	1/10W 22kΩ
R 647	117-4731-10	1/10W 47kΩ
R 648	117-4321-10	1/10W 4.3kΩ
R 649	117-1041-10	1/10W 100kΩ
R 660	117-1031-10	1/10W 10kΩ
R 661	117-4731-10	1/10W 47kΩ
R 662	111-1221-91	1/4WS 1.2kΩ
R 665	117-1031-10	1/10W 10kΩ
R 666	117-1031-10	1/10W 10kΩ
R 669	117-1041-10	1/10W 100kΩ
R 670	117-4731-10	1/10W 47kΩ
R 801	117-2731-10	1/10W 27kΩ
R 802	117-2211-10	1/10W 220Ω
R 803	117-1031-10	1/10W 10kΩ
R 804	117-1041-10	1/10W 100kΩ
R 805	117-3321-10	1/10W 3.3kΩ
R 806	117-1231-10	1/10W 12kΩ
R 808	117-1031-10	1/10W 10kΩ
R 809	111-1021-91	1/4WS 1kΩ
R 810	117-2221-10	1/10W 2.2kΩ
S 601	013-6100-00	SKHLLB
SUP 1	060-0122-10	DSP-201M-S00B
T 201	009-9008-80	0.7mH
VR 1	012-4863-13	470kΩ
VR 2	012-4863-06	10kΩ
VR 401	012-6002-56	10kΩ
VR 402	012-6002-56	10kΩ
X 2	061-1066-00	7.2MHz
X 601	060-0266-00	KBR-4.19MWS
X 801	061-3013-00	4.33MHz
X 802	060-0318-00	KBR-4.5MWS

Motor PWB section (B3)

REFNo.	PART No.	DESCRIPTION
C 913	176-2221-00	2200pF
C 914	176-2221-00	2200pF

REFNo.	PART No.	DESCRIPTION
S 901	013-3757-00	

REFNo.	PART No.	DESCRIPTION
S 902	013-3757-00	

Tape mechanism Side PWB section (B4)

REFNo.	PART No.	DESCRIPTION
C 1	175-3311-00	330pF CH
C 2	175-3311-00	330pF CH
C 3	175-3311-00	330pF CH
C 4	175-3311-00	330pF CH
C 5	183-4763-11	6.3V47 μF
C 6	042-0552-02	10V68 μF
C 7	042-0552-02	10V68 μF
C 8	173-1231-10	0.012 μF J
C 9	173-1231-10	0.012 μF J
C 10	183-4753-51	35V4.7 μF
C 11	183-1043-61	50V0.1 μF
C 12	175-5611-00	560pF CH

REFNo.	PART No.	DESCRIPTION
C 13	183-4743-61	50V0.47 μF
C 14	183-2263-31	16V22 μF
C 15	183-4753-51	35V4.7 μF
C 16	183-4753-51	35V4.7 μF
IC 1	051-1546-10	BA3430S
J 1	074-0881-08	8P
R 1	111-1241-91	1/4WS 120kΩ
R 2	111-1241-91	1/4WS 120kΩ
R 3	111-1241-91	1/4WS 120kΩ
R 4	111-1241-91	1/4WS 120kΩ
R 5	116-1011-10	1/8W 100Ω
R 6	116-1011-10	1/8W 100Ω

REFNo.	PART No.	DESCRIPTION
R 7	117-3341-10	1/10W 330kΩ
R 8	117-1131-10	1/10W 11kΩ
R 9	117-1531-10	1/10W 15kΩ
R 10	117-1531-10	1/10W 15kΩ
R 11	117-1131-10	1/10W 11kΩ
R 12	117-3341-10	1/10W 330kΩ
R 13	117-1811-10	1/10W 180Ω
R 14	117-8211-10	1/10W 820Ω
R 15	116-2231-10	1/8W 22kΩ
R 16	117-1031-10	1/10W 10kΩ
R 17	117-1031-10	1/10W 10kΩ

Tape mechanism Rear PWB section (B5)

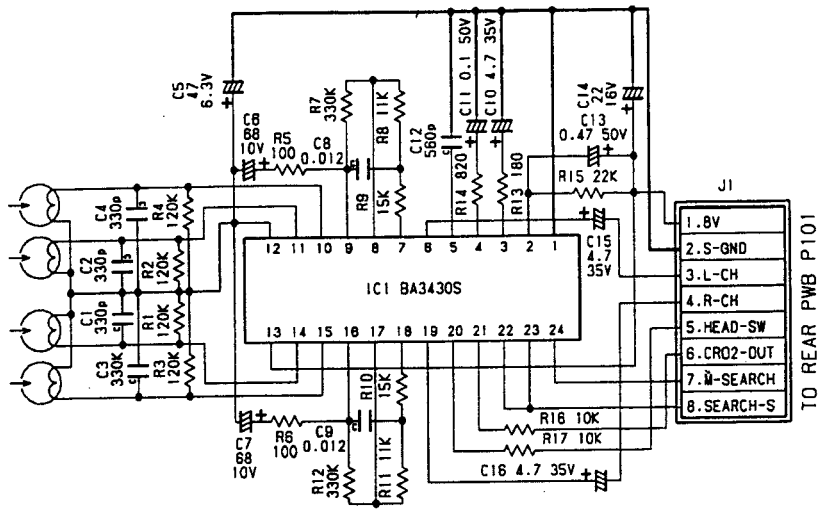
REFNo.	PART No.	DESCRIPTION
C 101	178-2232-78	0.022 μF
C 102	178-1042-78	0.1 μF
C 103	163-4763-30	16V47 μF
C 104	163-4763-30	16V47 μF
C 105	163-1063-30	16V10 μF
C 106	042-0505-00	25V1 μF
D 101	001-0595-17	MA5091
IC 101	052-4009-00	μPD75006GB-723-3B4
IC 102	051-1014-05	TA7291F
J 101	074-1012-09	9P
J 102	074-1012-09	9P

REFNo.	PART No.	DESCRIPTION
P 101	076-0353-08	8P
Q 101	101-1123-00	2SB1123
Q 102	125-2004-06	RN1406
Q 103	125-2004-06	RN1406
Q 104	101-1123-00	2SB1123
Q 105	103-1802-60	2SD1802FA-R.S.T
R 101	117-1031-10	1/10W 10kΩ
R 102	117-1031-10	1/10W 10kΩ
R 103	117-1031-10	1/10W 10kΩ
R 104	117-1031-10	1/10W 10kΩ
R 104	118-6811-15	1/2W 680Ω
R 105	117-1031-10	1/10W 10kΩ

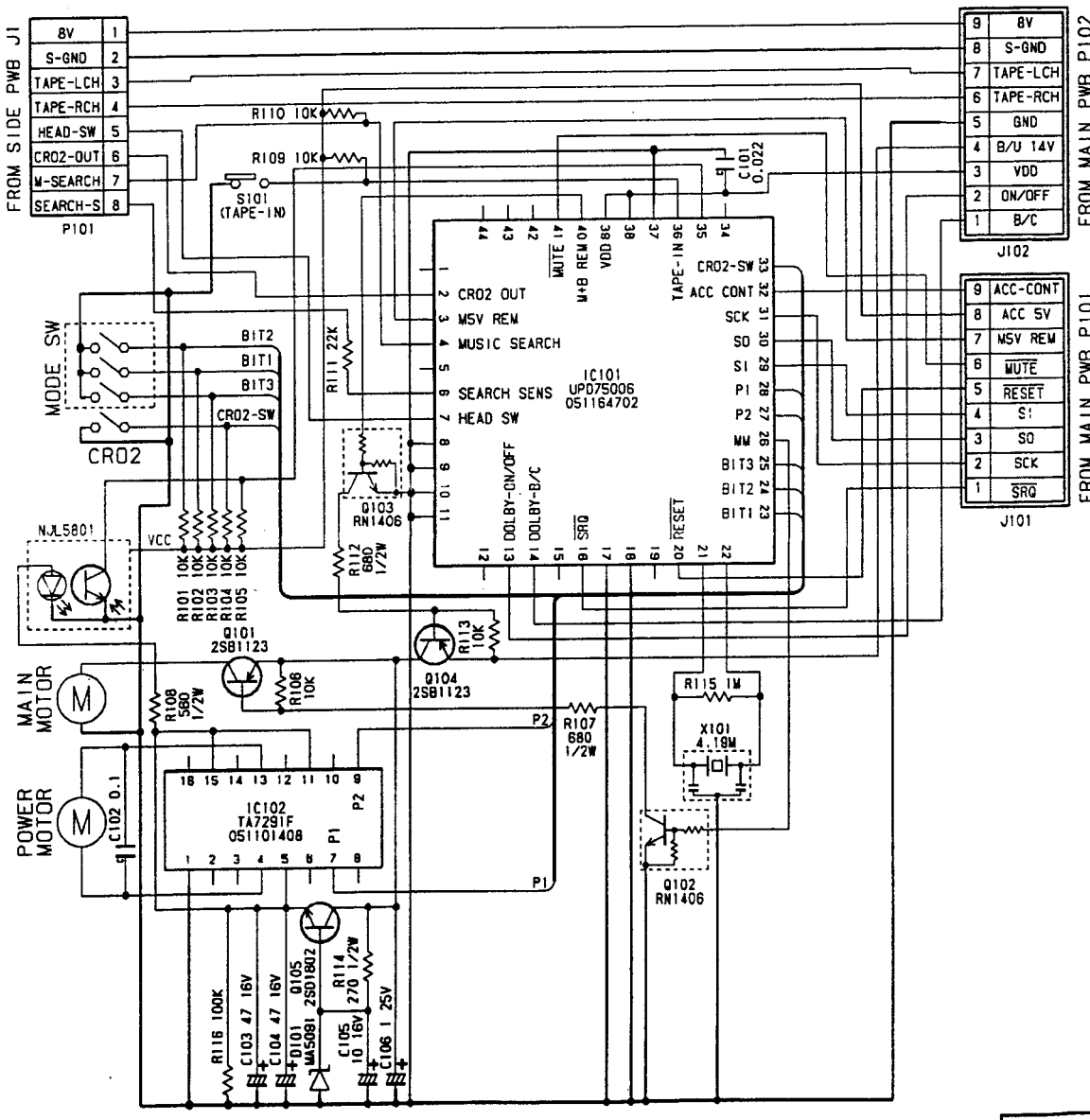
REFNo.	PART No.	DESCRIPTION
R 106	117-1031-10	1/10W 10kΩ
R 108	118-5611-10	1/2W 560Ω
R 109	117-1031-10	1/10W 10kΩ
R 110	117-1031-10	1/10W 10kΩ
R 111	117-2231-10	1/10W 22kΩ
R 112	118-6811-15	1/2W 680Ω
R 113	117-1031-10	1/10W 10kΩ
R 114	118-2711-15	1/2W 270Ω
R 115	117-1051-10	1/10W 1MΩ
R 116	117-1041-10	1/10W 100kΩ
X 101	060-0266-00	KBR-4.19MWS

■CIRCUIT DIAGRAM 1/2

Tape mechanism Side PWB section (B4)



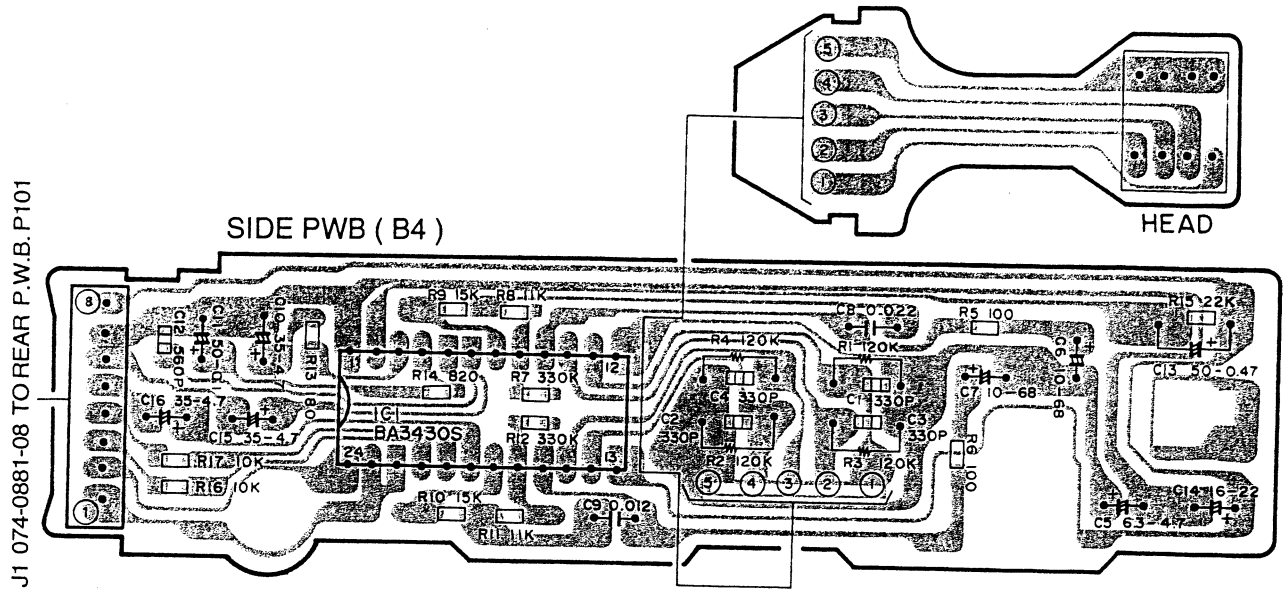
Tape mechanism Rear PWB section (B5)

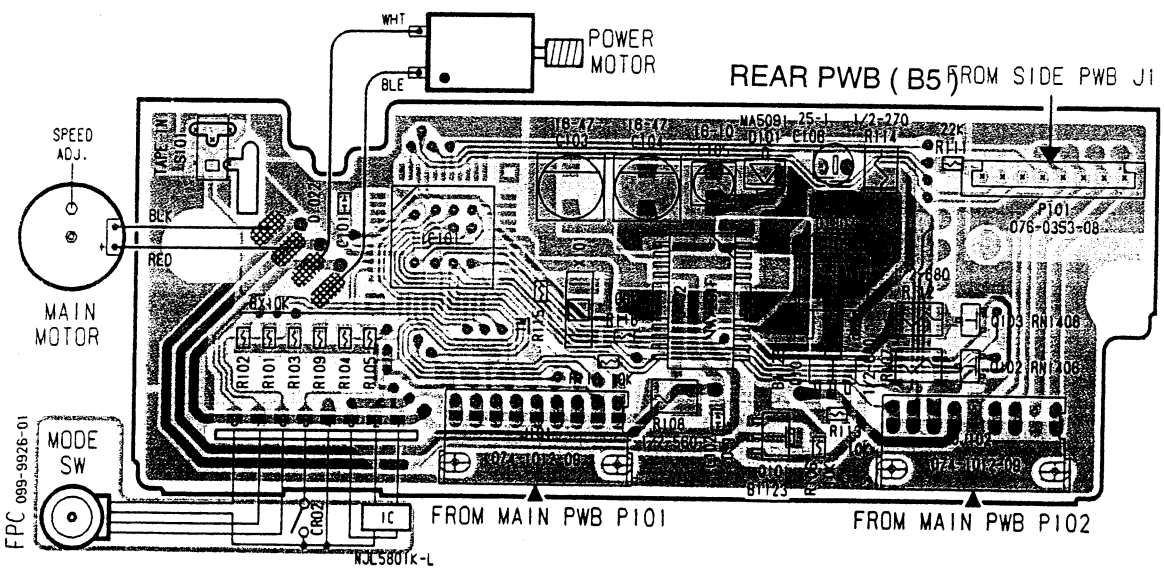


ARX9470R/RW

■PRINTED WIRING BOARD

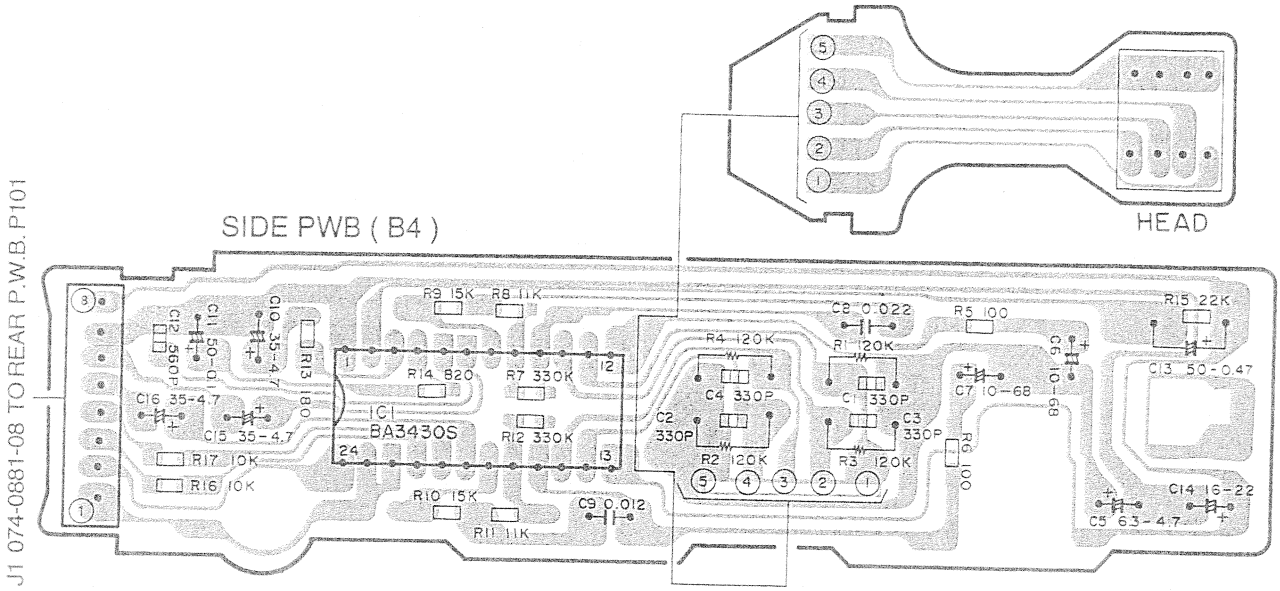
Tape mechanism Rear / Side PWB section

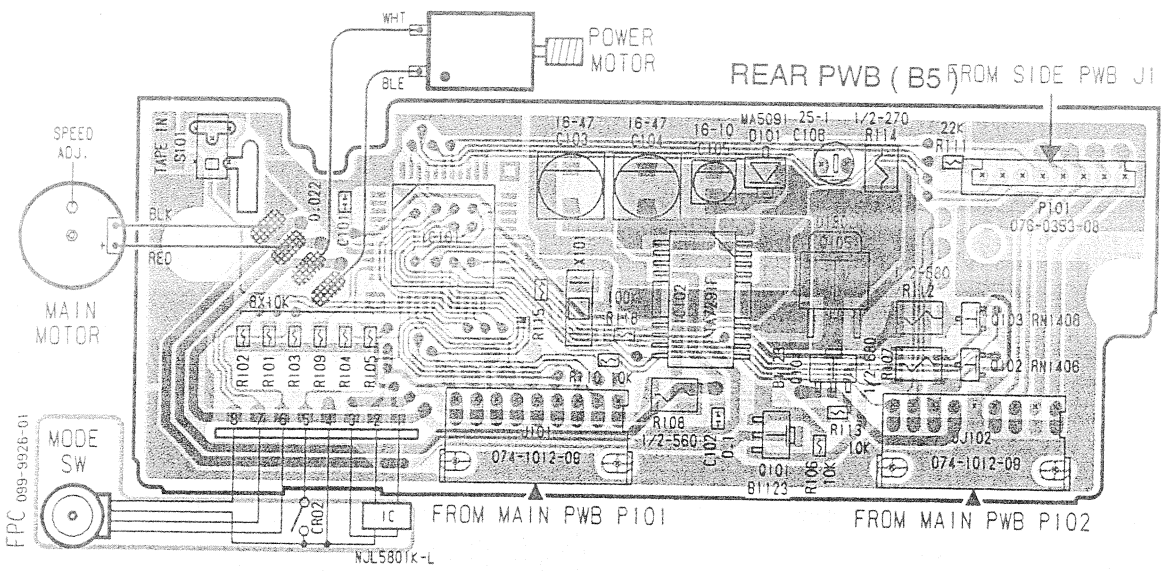




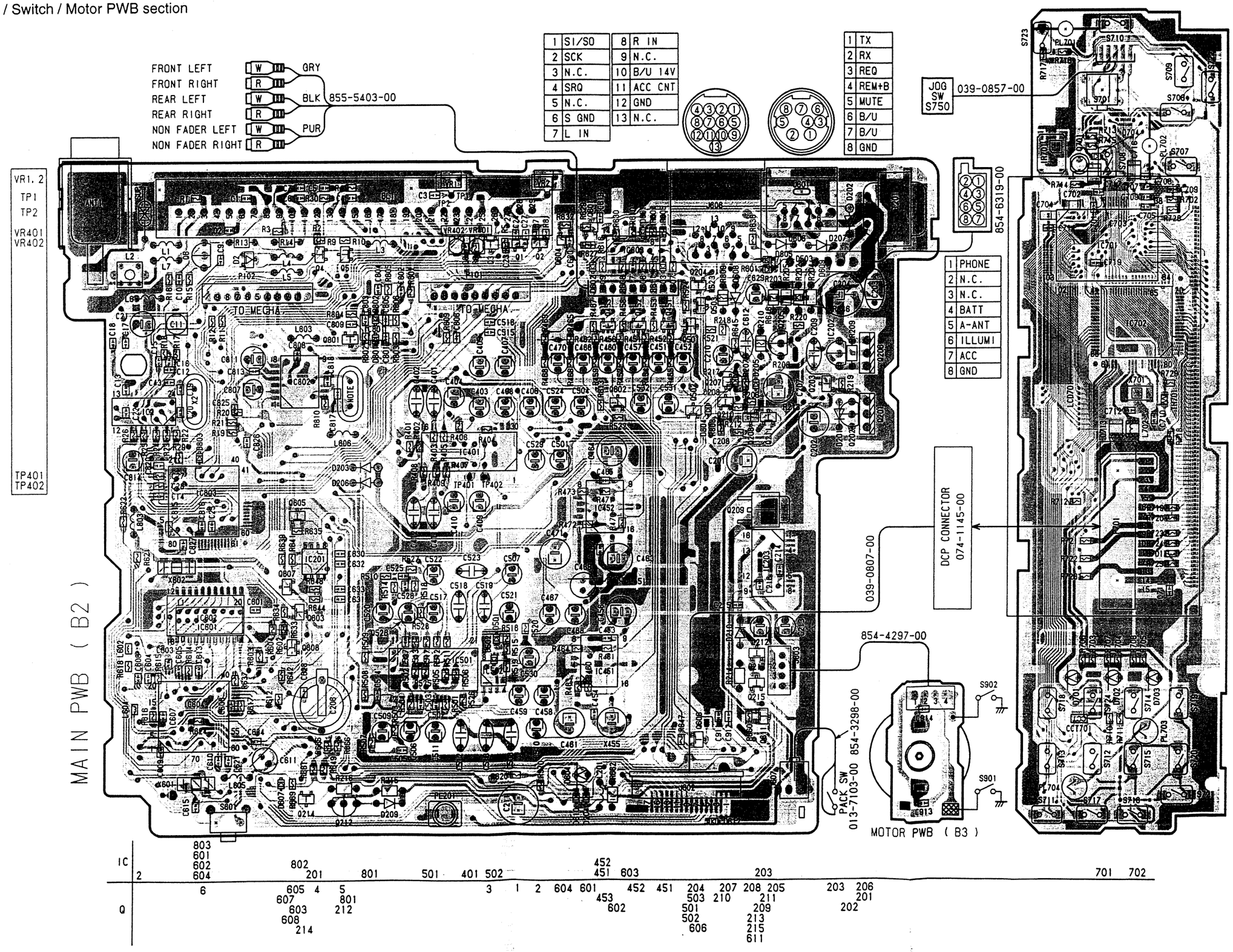
PRINTED WIRING BOARD

Tape mechanism Rear / Side PWB section

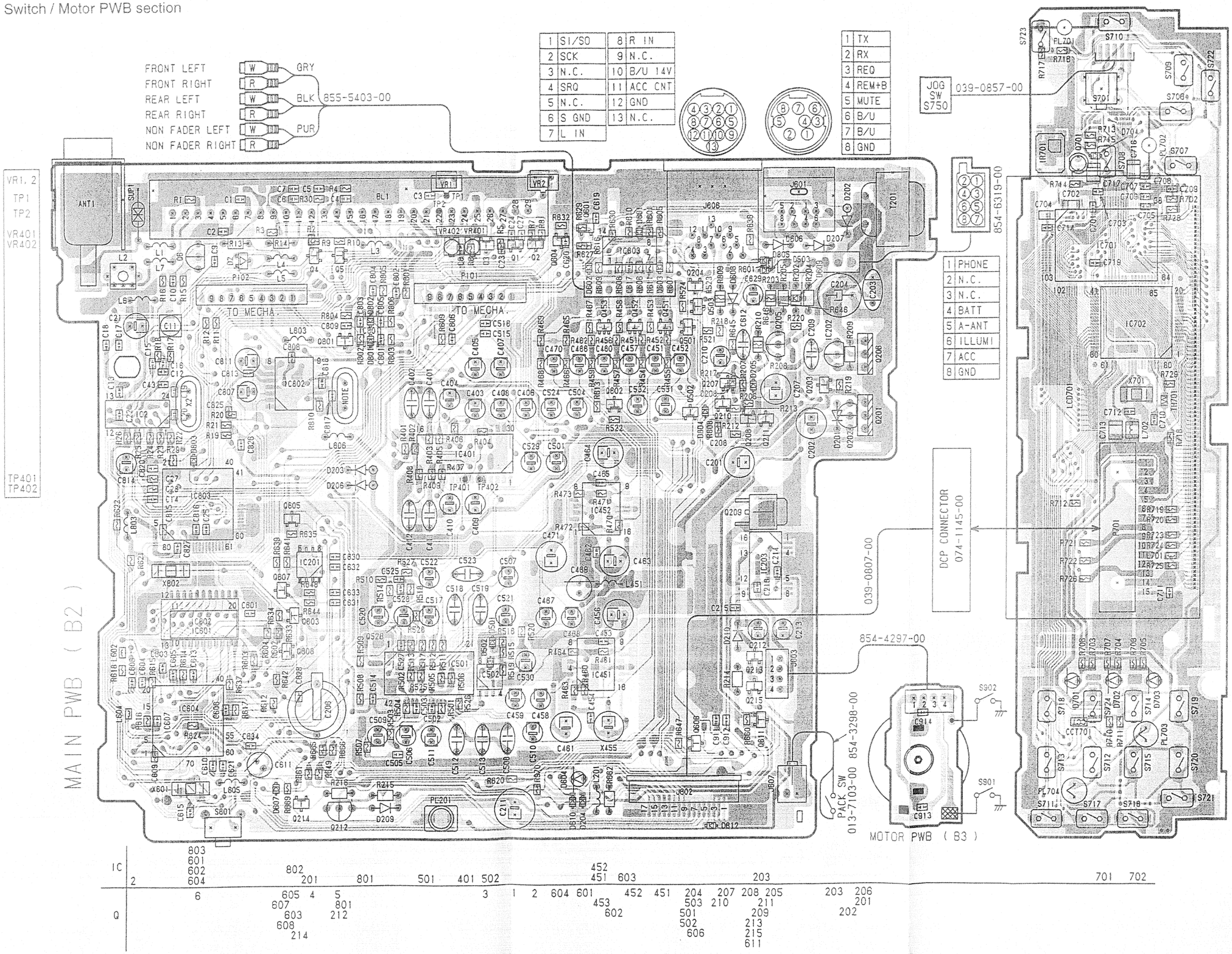




Main / Switch / Motor PWB section



Main / Switch / Motor PWB section



IC

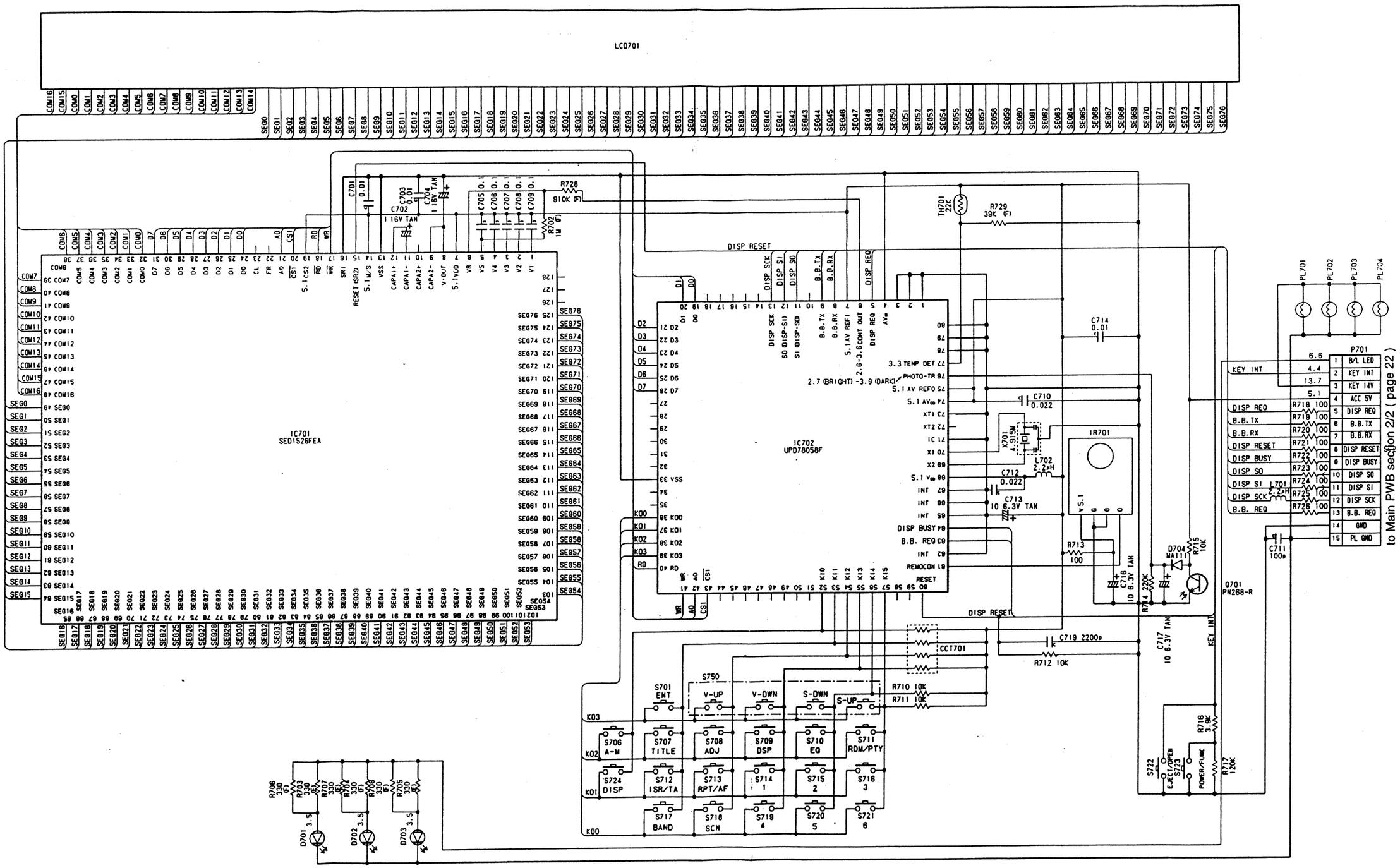
2 803 601 602 604 802 201 801 501 401 502 452 451 603 203 701 702

Q

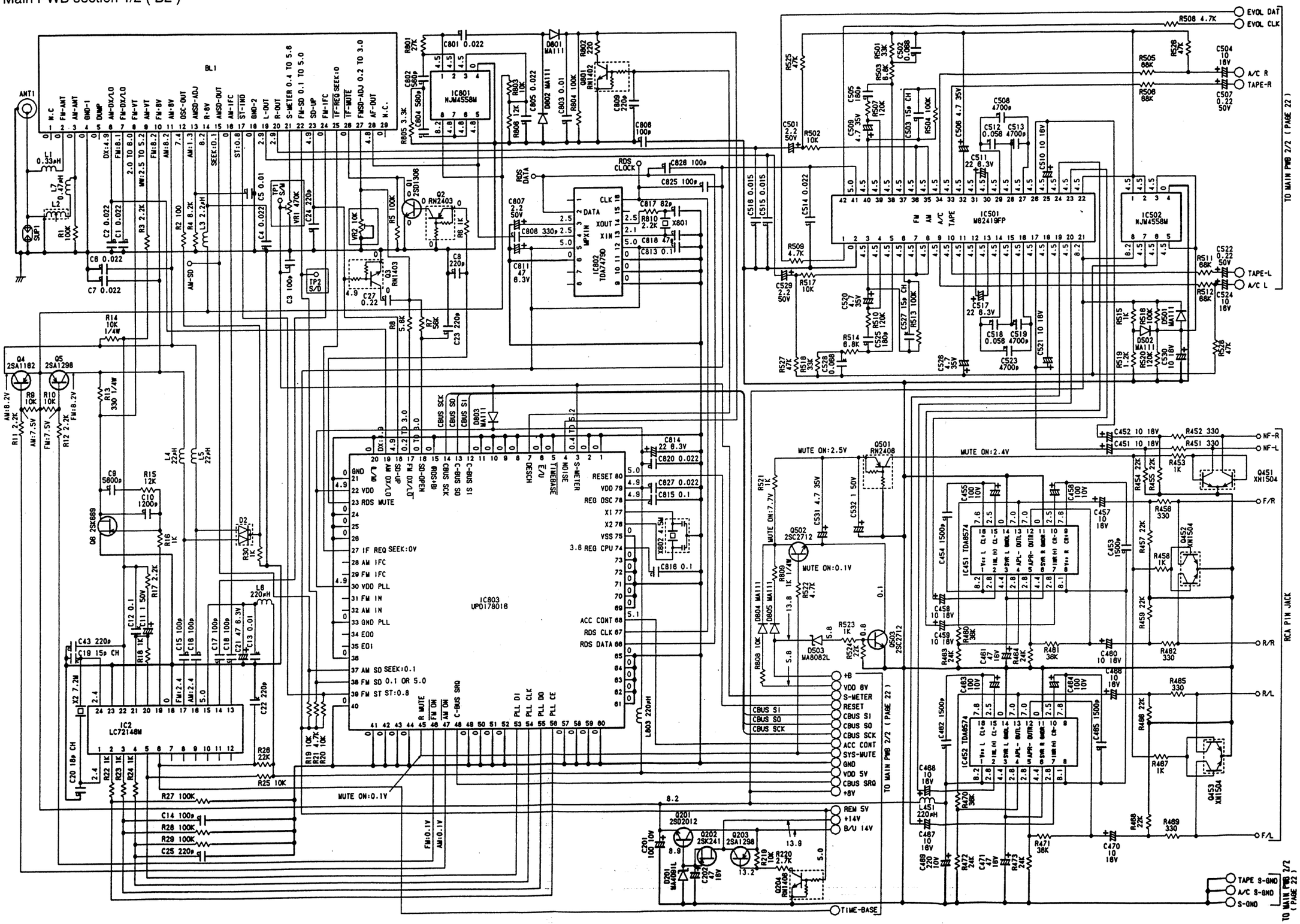
6 605 607 603 608 214 4 5 801 212 3 1 2 604 601 453 602 452 451 204 503 501 502 606 207 210 208 205 211 209 213 215 611 203 206 201 202

■CIRCUIT DIAGRAM 2/2

Switch PWB section (B1)



Main PWB section 1/2 (B2)



Main PWB section 2/2 and Moter PWB section